This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1 Claim 1 (original): An ultrasonic diagnostic apparatus
- 2 obtaining plural ultrasonic tomographic images at a
- 3 process that an ultrasonic probe moves and scans within a
- 4 body cavity of a body to be examined, the apparatus
- 5 comprising:
- 6 position information detecting means for detecting
- 7 position information of plural ultrasonic tomographic
- 8 images obtained in a process that the ultrasonic probe
- 9 moves within a body cavity of a body to be examined; and
- 10 tomographic parallel images constructing means for
- 11 constructing plural tomographic parallel images arranged
- 12 along a scan path of the ultrasonic probe based on the
- 13 position information obtained by the position information
- 14 detecting means.
- 1 Claim 2 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 1, further comprising display control
- 3 means for causing display means to display the ultrasonic
- 4 tomographic image and the tomographic parallel images so
- 5 as to compare.
- 1 Claim 3 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 1, wherein the tomographic parallel
- 3 images constructing means constructs new tomographic
- 4 parallel images by overwriting pixels corresponding to
- 5 the tomographic parallel images with the pixels
- 6 corresponding to the ultrasonic tomographic image every

- 7 time when the ultrasonic tomographic image is created in
- 8 the process that the ultrasonic probe moves and scans
- 9 within a body cavity of a body to be examined.
- 1 Claim 4 (original): An ultrasonic diagnostic apparatus
- 2 obtaining plural ultrasonic tomographic images in a
- 3 process that an ultrasonic probe moves within a body
- 4 cavity of a body to be examined, the apparatus
- 5 comprising:
- 6 position and direction detecting means for detecting
- 7 positions and directions of plural ultrasonic tomographic
- 8 images; and
- 9 tomographic parallel images constructing means for
- 10 constructing tomographic parallel images arranged along a
- 11 scan path based on the positions and the directions.
- 1 Claim 5 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 4, further comprising display means
- 3 displaying the ultrasonic tomographic image and the
- 4 tomographic parallel images so as to compare them.
- 1 Claim 6 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 5, wherein the display means displays
- 3 the ultrasonic tomographic image and the tomographic
- 4 parallel images on one screen so as to compare them.
- 1 Claim 7 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 5, wherein the display means displays
- 3 on the tomographic parallel images an ultrasonic

- 4 tomographic image marker indicating a position of the
- 5 ultrasonic tomographic image.
- 1 Claim 8 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 7, further comprising ultrasonic
- 3 tomographic image marker setting means for setting a
- 4 position of the ultrasonic tomographic image marker,
- 5 wherein the display means selects and displays the
- 6 ultrasonic tomographic image in accordance with a
- 7 position of the ultrasonic tomographic image marker set
- 8 by the ultrasonic tomographic image marker setting means.
- 1 Claim 9 (withdrawn): The ultrasonic diagnostic apparatus
- 2 according to Claim 4, further comprising slicing means
- 3 for slicing the ultrasonic tomographic image and creating
- 4 slices of the ultrasonic tomographic images, wherein the
- 5 tomographic parallel images constructing means constructs
- 6 tomographic parallel images by arranging the slices.
- 1 Claim 10 (withdrawn): The ultrasonic diagnostic
- 2 apparatus according to Claim 9, further comprising
- 3 slicing position setting means for setting a position of
- 4 slicing the ultrasonic tomographic image, wherein the
- 5 slicing means slices an ultrasonic tomographic image at a
- 6 position set by the slicing position setting means and
- 7 creates slices thereof.
- 1 Claim 11 (withdrawn): The ultrasonic diagnostic
- 2 apparatus according to Claim 4, further comprising

- 3 rotating means for constructing new tomographic parallel
- 4 images which are resulted from rotation of the
- 5 tomographic parallel images.
- 1 Claim 12 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 4, wherein the display means displays
- 3 the tomographic parallel images and an indicator
- 4 indicating a direction of the tomographic parallel images
- 5 with respect to the position and direction detecting
- 6 means.
- 1 Claim 13 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 4, wherein the tomographic parallel
- 3 images constructing means constructs new tomographic
- 4 parallel images by overwriting the tomographic parallel
- 5 images with pixels on the ultrasonic tomographic image
- 6 every time when the ultrasonic tomographic image is
- 7 created in a process that an ultrasonic probe moves
- 8 within a body cavity of a body to be examined.
- 1 Claim 14 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 13, wherein the tomographic parallel
- 3 images constructing means determines pixels to be
- 4 overwritten based on the position and direction detected
- 5 by the position and direction detecting means.
- 1 Claim 15 (original): The ultrasonic diagnostic apparatus
 - 2 according to Claim 4, wherein the ultrasonic probe

- 3 constitutes a mechanical radial scan type ultrasonic
- 4 endoscope performing mechanical radial scanning.
- 1 Claim 16 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 4, wherein the ultrasonic probe
- 3 constitutes an electronic radial scan type ultrasonic
- 4 endoscope performing electronic radial scanning.
- 1 Claim 17 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 4, wherein the ultrasonic probe
- 3 constitutes a capsule ultrasonic endoscope.
- 1 Claim 18 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 4, wherein the ultrasonic probe
- 3 constitutes a convex scanning type ultrasonic endoscope
- 4 performing convex scanning.
- 1 Claim 19 (original): An ultrasonic diagnostic apparatus
- 2 moving an ultrasonic transducer within a body cavity of a
- 3 body to be examined and creating plural chronological
- 4 tomographic images in accordance with the movement, the
- 5 apparatus comprising:
- 6 position information detecting means for detecting
- 7 position information of the ultrasonic transducer when
- 8 the tomographic images are obtained; and
- 9 auxiliary image creating means for creating an
- 10 auxiliary image indicating position information of the
- 11 tomographic images along a path of the movement of the
- 12 ultrasonic transducer based on position information

- 13 obtained by the position information detecting means and
- 14 the tomographic images corresponding to the position
- 15 information.
 - 1 Claim 20 (original): The ultrasonic diagnostic apparatus
 - 2 according to Claim 19, further comprising display control
 - 3 means for displaying the auxiliary image and a
 - 4 tomographic image corresponding to the auxiliary image so
 - 5 as to compare them.
 - 1 Claim 21 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 19, wherein the auxiliary image
- 3 creating means creates the auxiliary image including a
- 4 plate-like ultrasonic image marker expressing a position
- 5 and direction of the tomographic image.
- 1 Claim 22 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 20, wherein the display control means
- 3 causes display of the auxiliary image and a tomographic
- 4 image corresponding to the auxiliary image on the same
- 5 screen.
- 1 Claim 23 (withdrawn): The ultrasonic diagnostic
- 2 apparatus according to Claim 19, further comprising
- 3 recording means for relating and recording the
- 4 tomographic image and the position information,
- 5 wherein the auxiliary image creating means can create an
- 6 auxiliary image indicating position information of the
- 7 tomographic image based on the position information read

- 8 from the recording means and the tomographic image
- 9 corresponding to the position information.
- 1 Claim 24 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 20, wherein:
- 3 the auxiliary image creating means creates plural
- 4 auxiliary images for indicating position information of
- 5 the tomographic images from different directions; and
- 6 the display control means causes display of the
- 7 auxiliary images on the same screen so as to compare
- 8 them.
- 1 Claim 25 (original): The ultrasonic diagnostic apparatus.
- 2 according to Claim 21, wherein the auxiliary image
- 3 creating means creates the auxiliary image by
- 4 synthesizing the plural ultrasonic image markers and a
- 5 locus marker of the ultrasonic transducer, which is
- 6 created by sequentially connecting the ultrasonic image
- 7 markers.
- 1 Claim 26 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 21, wherein the auxiliary image
- 3 creating means superimposes a direction marker indicating
- 4 a specific direction of a corresponding tomographic image
- 5 on the ultrasonic image marker.
- 1 Claim 27 (withdrawn): The ultrasonic diagnostic
- 2 apparatus according to Claim 19, further comprising input

- 3 means instructing changing a mode of displaying the
- 4 tomographic image,
- 5 wherein the auxiliary image creating means creates
- 6 an auxiliary image having the ultrasonic image marker
- 7 displayed in a mode changed in connection with a change
- 8 in mode of displaying the tomographic images.
- 1 Claim 28 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 19, wherein the auxiliary image
- 3 creating means creates the auxiliary image including the
- 4 plural ultrasonic image markers arranged along a path of
- 5 movement of the ultrasonic transducer, and makes a
- 6 display form of the ultrasonic image marker corresponding
- 7 to the tomographic image displayed for comparison among
- 8 the plural ultrasonic image markers different from a
- 9 display form of the other ultrasonic image markers.
- 1 Claim 29 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 28, further comprising input means
- 3 instructing changing a tomographic image to be displayed
- 4 among the plural tomographic images recorded in the
- 5 recording means,
- 6 wherein the auxiliary image creating means changes
- 7 the ultrasonic image marker to a different display form
- 8 in connection with a change in the tomographic image to
- 9 be displayed.
- Claim 30 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 20, wherein the auxiliary image

- 3 creating means creates the auxiliary image including a
- 4 marker indicating a coordinates system, which is a
- 5 reference for creating the ultrasonic image markers.
- 1 Claim 31 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 30, further comprising input means
- 3 instructing changing a direction of displaying the
- 4 auxiliary image,
- 5 wherein the auxiliary image creating means changes a
- 6 direction of displaying the auxiliary image as well as
- 7 the marker indicating the coordinates system based on the
- 8 instruction from the input means.
- 1 Claim 32 (original): The ultrasonic diagnostic apparatus
- 2 according to Claim 19, wherein the position information
- 3 detecting means calculates the position information based
- 4 on a coordinates system with reference to a body to be
- 5 examined.